

New Zealand Mus.-Hand-list of birds.

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HAND-LIST

OF

BIRDS INHABITING NEW ZEALAND

AND

THOSE BIRDS FROM OTHER COUNTRIES THAT HAVE BEEN

OBSERVED IN NEW ZEALAND AS OCCASIONAL VISITORS.



Dominion Museum,
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INTRODUCTION.

SINCE the publication of the Supplement of Buller's Birds in 1905 there has been no full list of the birds that have been found in New Zealand issued. It is thought that a printed list of the scientific and common names, following the classification used in the British Museum, would be useful for many purposes.

In the Supplement Sir Walter Buller says, "I have taken this opportunity of reclassifying the avifauna of New Zealand according to the most modern system of arrangement—namely, that adopted by Dr. Bowdler Sharpe in his recently published 'Hand-list of Birds' *; so that, although in the nature of a 'Supplement' forming, as it were, a necessary acquisition for those who possess my former work, the present publication is virtually complete in itself, embracing all the known species.

"I am aware that Dr. Sharpe's system, which reverses the old sequence and commences with the lowest instead of the highest forms, has challenged much criticism; but the fact remains that it has been adopted by the trustees of our National Collection as the best that can be devised, whilst it seems to have met with general acceptance on the Continent. All systems are confessedly artificial, and they must in a sense be provisional, whilst our knowledge of the science is advancing towards perfection: but, for my own part, I attach so much importance to securing uniformity that, in my opinion, this is enough to outweigh all other considerations. It is to be hoped that we have now reached something like finality in the nomenclature of the birds of New Zealand, which has undergone many violent changes since the publication of my first edition in 1873. In the placing of the genera and of the species, as far as possible, the sequence followed is that of the 'Hand-list.' "

I agree with the late Sir Walter Buller that it is advisable to adopt this classification, and I think it desirable, therefore, to issue this list showing the order in which the birds should now be arranged which inhabit New Zealand, and have been recorded as occasional visitors. The works that have been issued by Sir Walter Buller are expensive and not likely to be in the hands of many persons, and the Manual of New Zealand Birds issued in 1882 has long been out of print. We have, however, a very useful work by Hutton and Drummond which gives short descriptions of most of the species arranged in the more familiar order, and much information as to the habits, locality, &c. In the group of petrels a very fine monograph by Salvin has just been issued, giving plates of every species. Some slight modifications of the specific name in Buller's Supplement have had to be made owing to recent investigations. The detailed references to the British Museum Catalogue are given in the Index Faunæ Novæ Zealandiæ.

Some indication of the available plates in Buller's works and in Salvin's Monograph on the Petrels is given after the specific name.

B. 1—Buller, 1st Edition, 1873.

B. 2—Buller, 2nd Edition, 1888.

B.S.—Buller, Supplement, 1905.

S. —Salvin's Monograph of the Petrels, 1909.

M. —Buller's Manual of New Zealand Birds, 1882.

A. HAMILTON, Director.

* "Hand-list of the Genera and Species of Birds," 5 vols., 1899-1905.

Class AVES.

Order APTERYGIFORMES.

Family APTERYGIDÆ.

- Apteryx lawryi*, Rothschild.
(Stewart Island Kiwi.) B.S., wdcut., p. 9 and p. 10.
- Apteryx australis*, Shaw.
(South Island Kiwi.) M. 20, p. 45.
- Apteryx mantelli*, Bartlett.
(Mantell's Kiwi.) B. 1; M. 21, p. 44, wdcut., p. 44.
- Apteryx bulleri*, Sharpe.
(Buller's Dark Kiwi.) B. 2, pl. 47.
- Apteryx oweni*, Gould.
(Owen's Kiwi.) B. 1; B. 2, pl. 48; M. 21, p. 46.
- Apteryx occidentalis*, Rothschild.
(West Coast Kiwi.)
- Apteryx haasti*, Potts.
(Haast's Kiwi.) B. 2, fig. 1; B.S., pl. 1; M. 22, p. 46.

Order GALLIFORMES.

Family MEGAPODIDÆ.

- Megapodius pritchardi*, Gray.
(Southern Megapode.) B.S., pl. 2.

Family PHASIANIDÆ.

- Coturnix novæ-zealandiæ*, Quoy et Gaim.
(New Zealand Quail.) B. 1; B. 2, pl. 23; M. 19, p. 43.

Order COLUMBIFORMES.

Family TRERONIDÆ.

- Hemiphaga novæ-zealandiæ*, Latham.
(New Zealand Pigeon.) B. 1; B. 2, pl. 24; M. 18, p. 41.
- Hemiphaga Chathamensis*, Rothschild.
(Chatham Island Pigeon.)

Order RALLIFORMES.

Family RALLIDÆ.

- Hypotænidia muelleri*, Rothschild.
(Auckland Island Rail.)
- Hypotænidia philippinensis*, Linn.
(Banded Rail.) B. 1; B. 2, pl. 33; M. 26, p. 62, wdcut., p. 62.

Nesolimnas dieffenbachii, Gray.

(Dieffenbach's Rail.) B. 1; M. 26, p. wdcut., p. 62.

Cabalus modestus, Hutton.

(Hutton's Rail.) B.S., pl. 3; Cat. Birds B.M.

Ocydromus greyi, Buller.

(North Island Woodhen.) B. 2, pl. 34.

Ocydromus earli, Gray.

(Brown Woodhen.) B. 1; M. 25, p. 59, wdcut., p. 59.

Ocydromus australis, Sparrm.

(South Island Woodhen.) B. 1; B. 2, pl. 35; M. 25, p. 60.

Ocydromus hectori, Lafr.

(Buff Woodhen.)

Ocydromus brachypterus, Lafr.

(Black Woodhen.) B. 2, pl. 35.

Ocydromus scotti, Grant.

(Stewart Island Woodhen.)

Porzana affinis, Gray.

(Marsh-rail.) B. 1; M. 27, p. 63.

Porzana plumbea, Gmelin.

(Swamp-rail.) B. 1; B. 2, pl. 33; M. 27, p. 63.

Porphyrio melanonotus, Temm.

(Swamp-hen.) B. 2, pl. 31.

Notornis mantelli, Owen.

(Mantell's Notornis.) B. 1; B. 2, pl. 32; M. 28, p. 64.

Fulica australis, Gould.

(Australian Coot.)

(?) *Fulica novæ-zealandiæ*, Colenso.

(Colenso's Coot.)

Order PODICIPEDIFORMIS.

Family PODICIPEDIDÆ.

Podiceps rufipectus, Gray.

(New Zealand Dabchick.)

Lophæthya cristata, Linn.

(Great Crested Grebe.)

Order SPHENISCIFORMES.

Family SPHENISCIDÆ.

Aptenodytes patagonica, Forst.

(King Penguin.)

Pygoscelis papua, Forster.

(Rock-hopper.)

Catarrhactes chrysocome, Forster.

(Tufted Penguin.) B. 1.

-
- Catarrhactes pachyrhynchus*, G. R. Gray.
(Victoria Penguin.) M. 37, p. 99.
- Catarrhactes sclateri*, Buller.
(Sclater's Penguin.)
- Catarrhactes schlegeli*, Finsch.
(Schlegel's Penguin.)
- Catarrhactes vittatus*, Finsch.
(Thick-billed Penguin.)
- Megadyptes antipodum*, Hombr. and Jacq.
(Yellow-crowned Penguin.) B. 2, pl. 46.
- Eudyptula minor*, Gmelin.
(Little Blue Penguin.) B. 1 ; M. 37, p. 101.
- Eudyptula albosignata*, Finsch.
(Blue Penguin.)

Order PROCELLARIIFORMES.

Family PROCELLARIIDÆ.

- Oceanites oceanica*, Kuhl.
(Wilson's Storm-petrel.) S., pl. 12.
- Garrodia nereis*, Gould.
(Grey-backed Storm-petrel.) S., pl. 14.
- Pelagodroma marina*, Latham.
(White-faced Storm-petrel.) S. pl. 15.
- Pealea lineata*, Peale.
(Peale's Storm-petrel.) S., pl. 16.
- Fregetta melanogaster*, Gould.
(Black-bellied Storm-petrel.) S., pl. 17.

Family PUFFINIDÆ.

- Puffinus gavia*, Forster.
(Forster's Shearwater.) S., pl. 32.
- Puffinus assimilis*, Gould.
(Allied Shearwater.) S., pl. 35.
- Puffinus obscurus*, Gmelin.
(Dnsky Shearwater.) S., pl. 34.
- Puffinus bulleri*, Salvin.
(Buller's Shearwater.) S., pl. 23 ; B. 2, pl. 41.
- Puffinus griseus*, Gmelin.
(Mutton-bird ; Sooty Shearwater.) S., pl. 38.
- Puffinus carneipes*, Gould.
(Flesh-footed Shearwater.) S., pl. 37.
- Puffinus tenuirostris*, Temm.
(Bonaparte's Shearwater ; Short-tailed.) S., pl. 39.

-
- Puffinus chlororhynchos*, Lesson.
 (Wedge-tailed Shearwater.) S., pl. 24.
Priofinus cinereus, Gmel.
 (Grey Petrel.) S., pl. 41.
Thalasseoca antarctica, Gmelin.
 (Antarctic Petrel.) S., pl. 42.
Priocella glacialis, Smith.
 (Silvery-grey Petrel.) S., pl. 43.
Majaqueus parkinsoni, Gray.
 (Black Fulmar.) S., pl. 45.
Majaqueus aequinoctialis, Linn.
 (White-chinned Black Fulmar.) S., pl. 44.
Estrelata gouldi, Hutton = *macroptera* Smith?
 (Grey-faced Petrel; Long-winged Fulmar.) S., pl. 46.
Estrelata lessonae, Garnot.
 (White-headed Petrel.) S., pl. 48.
Estrelata incerta, Schlegel.
 (Doubtful Petrel.) S., pl. 53.
Estrelata mollis, Gould.
 (Soft-plumaged Petrel.) S., pl. 54.
Estrelata cervicalis, Salvin.
 (Sunday Island Petrel.) S., pl. 63; B.S., pl. 4.
Estrelata neglecta, Schlegel.
 (Schlegel's Petrel.) S., pl. 54.
Estrelata gularis, Buller.
 (Mottled Petrel.) S., pl. 68.
Estrelata cooki, Gray.
 (Cook's Petrel.) S., pl. 71.
Estrelata parvirostris, Peale.
 (Phoenix Island Fulmar.) S., pl. 52.
Estrelata fuliginosa, Kuhl.
 (Sooty Petrel.)
Estrelata axillaris, Salvin.
 (Salvin's Petrel; Chatham Island Fulmar.) S., pl. 72.
Estrelata philipi, Gray.
 (Phillip's Petrel.)
Ossifraga gigantea, Gmel.
 (Giant Petrel.) S., pl. 76.
Daption capensis, Linn.
 (Pintado Petrel; Cape Pigeon.) S., pl. 80.
Halobæna cærulea, Gmelin.
 (Blue Petrel.) S., pl. 81.
Prion vittatus, Gmelin.
 (Broad-billed Dove-petrel.) S., pl. 82; M., wdcut., p. 90.
Prion banksi, Smith.
 (Banks' Blue Dove-petrel.) S., pl. 83.

Prion desolatus, Gmelin.

(Dove-petrel.) S., pl. 84 ; M., wdcut., p. 89.

Prion brevirostris, Gould.

(Short-billed Dove-petrel.)

Prion ariel, Gould.

(Gould's Dove-petrel.)

Family PELECANOIDIDÆ.

Pelecanoides urinatrix, Gmelin.

(Smaller Diving Petrel.)

Pelecanoides exsul, Salvin.

(Larger Diving Petrel.)

Family DIOMEDEIDÆ.

Diomedea exulans, Linn.

(Wandering Albatross.) B. 2, pl. 40.

Diomedea regia, Buller.

(Royal Albatross.)

Diomedea melanophrys, Boie.

(Black-eyebrowed Albatross.)

Diomedea bulleri, Rothschild.

(Buller's Albatross.) B.S., pl. 5.

Diomedea salvini, Rothschild.

(Salvin's Albatross.) B.S., pl. 5, wdcut. ; B.S., pl. 5.

Diomedea cauta, Gould.

(Shy Albatross.)

Diomedea culminata, Gould.

(Grey-headed Albatross.)

Diomedea chlororhyncha, Gmelin.

(Yellow-beaked Albatross.)

Phœbetria fuliginosa, Gmelin.

(Sooty Albatross.) B. 1.

Phœbetria fuliginosa var. *cornicoides*, Hutton.

Order LARIFORMES.

Family LARIDÆ.

Hydrochelidon leucoptera, Schinz.

(White-winged Black Tern.)

Hydroprogne caspia, Pallas.

(Caspian Tern.)

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- Sterna albistriata*, Gray.
 (Black-fronted Tern.) B. 2, pl. 30.
Sterna vittata, Gmelin.
 (Southern Tern.)
Sterna frontalis, Gray.
 (White-fronted Tern.) B. 2, pl. 30.
Sterna bethunei, Buller.
 (Bethune's Tern.)
Sterna fuliginosa, Gmelin.
 (Sooty Tern.)
Sterna nereis, Gould.
 (Little White Tern.)
Procelsterna cinerea, Gould.
 (The Little Noddy.)
Anous stolidus, Linn.
 (Common Noddy.)
Micranous leucocapillus, Gould.
 (Black Noddy.)
Gygis alba, Sparrm.
 (White Tern.)
Larus bulleri, Hutton.
 (Buller's Gull.) B. 1 ; B. 2, pl. 29 ; M. 32, p. 78.
Larus novæ-hollandiæ, Stephens.
 (Australian Gull.)
Larus scopulinus, Forster.
 (Red-billed Gull.) B. 2, pl. 29.
Larus dominicanus, Licht.
 (Southern Black-backed Gull.) B. 1 ; M. 32, p. 76.

Family STERCORARIIDÆ.

- Megalestris antarctica*, Less.
 (Southern Skua.)
Megalestris maccormicki, Saunders.
 (MacCormick's Skua.)
Stercorarius crepidatus, Gmelin.
 (Richardson's Skua.)

Order CHARADRIIFORMES.

Family CHARADRIIDÆ.

- Arenaria interpres*, Linn.
 (Turnstone.)
Hæmatopus longirostris, Vieill.
 (Pied Oyster-catcher.)
Hæmatopus unicolor, Wagler.
 (Black Oyster-catcher.)

- Lobivanellus lobatus*, Latham.
(Australian Masked Plover.)
- Charadrius dominicus*, P. L. S. Muller.
(Eastern Golden Plover.)
- Oethodromus obscurus*, Gmelin.
(New Zealand Dottrel.) B. 2, pl. 25.
- Oethodromus bicinctus*, Jard. & Selby.
(Banded Dottrel.) B. 2, pl. 25.
- Ægialitis ruficapilla*, Temm.
(Red-capped Dottrel.)
- Thinornis novæ-zealandiæ*, Gmelin.
(New Zealand Shore-plover.) B. 1 ; B. 2, pl. 26 ; M. 33, p. 49.
- Thinornis rossi*, G. R. Gray.
(Auckland Island Shore-plover.)
- Anarhynchus frontalis*, Quoy et Gaim.
(Wry-billed Plover.) B. 2, pl. 26 ; M., wdeut., p. 49.
- Himantopus picatus*, Ellman.
(White-headed Stilt.)
- Himantopus leucocephalus*, Gould.
(White-headed Stilt.)
- Himantopus melas*, Hombr.
(Black Stilt.) B. 2, pl. 27.
- Himantopus albigollis*, Buller.
(White-necked Stilt.) B. 2, pl. 27.
- Recurvirostris novæ-hollandiæ*, Vieillot.
(Red-necked Avocet.) B. 2, pl. 27.
- Numenius cyanopus*, Vieill.
(Australian Curlew.)
- Numenius variegatus*, Scop.
(Australian Whimbrel.)
- Mesoscolopax minutus*, Gould.
(Little Whimbrel.)
- Limosa novæ-zealandiæ*, Gray.
(Southern Godwit.) B. 2, pl. 28.
- Limosa hudsonica*, Latham.
(Red-breasted Godwit.)
- Heteractitis incanus*, Gmelin.
(Grey Sandpiper.)
- Glottis nebularius*, Gunner.
(Greenshank.)
- Limonites ruficollis*, Pallas.
(Red-necked Sandpiper.)
- Heteropygia acuminata*, Horsf.
(Marsh Sandpiper.)
- Ancylochilus subarquatus*, Guldenst.
(Curlew Sandpiper.)

Tringa canutus, Linn.

(The Knot.)

Tringa subarquata, Guldentst.

(The Curlew Sandpiper.)

Gallinago Aucklandica, Gray.

(Auckland Island Snipe.)

Gallinago pusilla, Buller.

(Chatham Island Snipe.) B. 2. pl. 28.

Gallinago huegeli, Tristram.

(The Snares Snipe.)

Gallinago australis, Latham.

(Australian Snipe.)

Crymophilus fulicarius, Linn.

(Gray Phalarope.)

Family GLAREOLIDÆ.

Stiltia isabella, Temm.

(Australian Pratincole.)

Order ARDEIFORMES.

Family IBIDIDÆ.

Plegadis falcinellus, Linn.

(Glossy Ibis.)

Family PLATALEIDÆ.

Platalea regia, Reichenb.

(Royal Spoonbill.)

Order BALÆNICIPITES.

Family ARDEIDÆ.

Ardea cinerea, Linn.

(Common Heron.)

Herodias Timoriensis, Lesson.

(Eastern Great White Heron.) B. 2, pl. 36.

Notophox novæ-hollandiæ, Latham.

(White-fronted Heron.) B. 1 ; M. 24, p. 52.

Nycticorax caledonicus, Gmelin.

(Nankeen Night-heron.)

Demiegretta sacra, Gmelin.

(Reef Heron.) B. 1 ; B. 2, pl. 36 ; M. 24, p. 52.

Ardetta pusilla, Vieill.

(Little Bittern.)

Botaurus poeciloptilus, Wagler.

(Black-backed Bittern.)

Order ANSERIFORMES.

Family ANATIDÆ.

Dendrocygna eytoni, Gould.

(Whistling Duck.)

Casarca variegata, Gmelin.

(Paradise Duck.) B. 1 ; B. 2, pl. 43 ; B.S., p. 3 ; M. 29, p. 67.

Anas superciliosa, Gmelin.

(Grey Duck.)

Nettion castaneum, Eyton.

(Australian Teal.)

Nettion gibberifrons, Muller.

(Wood-teal.)

Elasmonetta chlorotis, Gray.

(Brown Duck.) B. 2, pl. 42.

Nesonetta aucklandica, Gray.

(Auckland Island Duck.) B. 2, pl. 42.

Spatula variegata, Gould.

(New Zealand Shoveller.) B. 1 ; B. 2, pl. 44 ; M. 30, p. 70.

Aythya australis, Gould.

(White-eyed Duck.)

Fuligula novæ-zealandiæ, Gmelin.

(New Zealand Scaup.) B. 1 ; B. 2, pl. 45 ; M. 31, p. 72.

Hymenolæmus malacorhynchus, Gmelin.

(Mountain Duck.) B. 1 ; B. 2, pl. 45 ; B.S., p. 20 ; M. 31, p. 71,
wdecut., p. 71.

Merganser australis, Hombr. and Jacq.

(Auckland Island Merganser.)

ORDER PELECANIFORMES.

Family PHALACROCORACIDÆ.

Phalacrocorax carbo, Linn.

Phalacrocorax novæ-hollandiæ, Steph.

(Sea-shag.)

Phalacrocorax varius, Gmelin.

(Pied Shag.) B. 2, pl. 37.

Phalacrocorax carunculatus, Gmelin.

(Rough-faced Shag.) B. 1 ; M. 34, p. 93.

Phalacrocorax colensoi, Buller.

(Auckland Island Shag.)

Phalacrocorax huttoni, Buller.

(Hutton's Shag.)

Phalacrocorax chalconotus, Gray.

(Gray's Shag.)

Phalacrocorax punctatus, Sparrm.

(Spotted Shag.) B. 1 ; B. 2, pl. 39 ; M. 35, p. 95.

- Phalacrocorax featherstoni*, Buller.
(Chatham Island Shag.) B. 1 ; B. 2, pl. 39 ; M. 36, p. 96.
- Phalacrocorax onslowi*, Forbes.
(Onslow's Shag.)
- Phalacrocorax campbelli*, Filhol.
(Campbell Island Shag.)
- Phalacrocorax traversi*, Rothschild.
(Macquarie Island Shag.)
- Phalacrocorax ranfurlyi*, Grant.
(Ranfurly's Shag.)
- Phalacrocorax sulcirostris*, Brandt.
(Black Shag.)
- Phalacrocorax stewarti*, Grant.
(The Stewart Island Shag.)
- Phalacrocorax brevirostris*, Gould.
(White-throated Shag.) B. 1 ; M. 34, p. 94.
- Phalacrocorax melanoleucus*, Vieillot.
(Frisled Shag.) B.S., p. 45.

Family PLOTIDÆ.

- Plotus novæ-hollandiæ*, Gould.
(Australian Darter.)

Family SULIDÆ.

- Sula serrator*, Gray.
(Australian Gannet.)
- Sula cyanops*, Sundevall.
(Blue-eyed Gannet.)
- Sula sula*, Vieillot.
(Brown Gannet.)

Family FREGATIDÆ.

- Fregata aquila*, Linn.
(Great Frigate-bird.)
- Fregata ariel*, Gmelin.
(Small Frigate-bird.)

Family PHÆTHONTIDÆ.

- Phæthon rubricauda*, Bodd.
(Red-tailed Tropic-bird.)
- Pelecanus conspicillatus*, Temm.
(Australian Pelican.)

Order ACCIPITRIFORMES.

Family FALCONIDÆ.

- Circus Gouldi*, Bonap.
(Gould's Harrier.) B. 2, pl. 21 ; M. 1A, p. 3.

Nesierax (*Harpa*) *novæ-zealandiæ*, Gmelin.

(Quail-hawk.) B. 1 ; B. 2, pl. 22 ; B.S., p. 57 ; M. 1, p. 1, wdcut., p. 1.

Nesierax australis, Peale.

(Bush-hawk.)

Cerchneis novæ-zealandiæ, Gmelin.

(Nankeen Kestrel.)

Order STRIGIFORMES.

Family BUBONIDÆ.

Ninox novæ-zealandiæ, Gmelin.

(New Zealand Owl.) B. 1 ; B. 2, pl. 20 ; M. 2, p. 5.

Sceloglaux albifacies, Gray.

(Laughing Owl.) B. 1 ; B. 2, pl. 20 ; M. 2, p. 5.

Sceloglaux rufifacies, Buller.

(Rufous-faced Owl.) B.S., pl. 7.

Order PSITTACIFORMES.

Family NESTORIDÆ.

Nestor meridionalis, Gmelin.

(Kaka Parrot.) B. 1 ; B. 2, pl. 17 ; M. 16, p. 36, wdcut., p. 36.

Nestor notabilis, Gould.

(Kea Parrot.) B. 1 ; B. 2, pl. 18.

Nestor esslingi, Souance.

(Yellow-belted Kaka.) B.S., pl. 8.

Family PLATYCERCINÆ.

Cyanorhamphus unicolor, Vigors.

(Antipodes Island Parrakeet.) B.S., pl. 9.

Cyanorhamphus novæ-zealandiæ, Sparrm.

(Red-fronted Parrakeet.) B. 1 ; B. 2, pl. 16 ; M. 15, p. 34.

Cyanorhamphus aucklandicus, Bonap.

(The Auckland Island Parrakeet.)

Cyanorhamphus cyanurus, Salvad.

(Kermadec Islands Parrakeet.)

Cyanorhamphus auriceps, Kuhl.

(Yellow-fronted Parrakeet.) B. 1 ; B. 2, pl. 16 ; M. 15, p. 35.

Cyanorhamphus malherbei, Buller.

(Orange-fronted Parrakeet.)

Cyanorhamphus erythrotis, Wagl.

(Red-eared Parrakeet.)

Family STRINGOPIDÆ.

Stringops habroptilus, Gray.

(Owl Parrot.) B. 2, pl. 9 ; M. 14A, p. 33, wdcut., p. 33.

Order CORACIIFORMES.

Family CORACIIDÆ.

Eurystomus australis, Latham.
(Australian Roller.)

Family ALCEDINIDÆ.

Halcyon vagans, Lesson.
(New Zealand Kingfisher.) B. 2, pl. 13 ; M. 3, p. 8.

Family CYPSELIDÆ.

Chœtura caudacuta, Latham.
(Spine-tailed Swift.)
Cypselus pacificus, Latham.
(Australian Swift.)

Order COCCYGES.

Family CUCULIDÆ.

Cuculus saturatus, Horsf.
(Australian Cuckoo.)
Chalcococcyx lucidus, Gmelin.
(Shining Cuckoo.) B. 2 ; pl. 15.
Urodynamis taitensis, Sparrm.
(Long-tailed Cuckoo.) B. 1 ; B. 2, pl. 14.

Order PASSERIFORMES.

Family XENICIDÆ.

Acanthidositta chloris, Sparrm.
(Rifleman.) B. 2, pl. 12 ; M., wdcut., p. 15.
Acanthidositta citrina, Gmelin.
(Alpine Rifleman.)
Xenicus longipes, Gmelin.
(Bush-wren.) Ibis. 1905, pl. xii ; B. 1 ; B. 2, pl. 12 ; M. 8, p. 14,
wdcut., p. 14.
Xenicus stokesi, G. R. Gray.
(North Island Wren.) Ibis. 1905, pl. xii ; B.S., pl. 10.
Xenicus gilviventris, Von Pelzeln.
(Rock-wren.) B. 1 ; B. 2, pl. 12 ; M. 8, p. 15.
Traversia insularis, Buller.
(Stephen Island Wren.) B.S., pl. 19 ; Ibis.

Family HIRUNDINIDÆ.

Petrochelidon nigricans, Vieill.
(Australian Tree-swallow.)

Family MUSCICAPIDÆ.

Petroœca toitoi, Garnot.

(North Island Tomtit.) B. 2, pl. 5 ; M., wdcut., p. 21.

Petroœca macrocephala, Gmelin.

(South Island Tomtit.) B. 2, pl. 5.

Petroœca vittata, Quoy et Gaim.

(Dusky Robin.)

Pseudogerygone igata, Quoy et Gaim.

(South Island Warbler.)

Pseudogerygone flaviventris, Gray.

(North Island Grey-warbler.) B. 2, pl. 14 and 15 ; M., wdcut., p. 20.

Pseudogerygone sylvestris, Potts.

(Bush-warbler.)

Pseudogerygone albofrontata, Gray.

(Chatham Island Warbler.) B. 2, pl. 12.

Miro albifrons, Gmelin.

(South Island Robin.) B. 2, pl. 5.

Miro australis, Sparrm.

(North Island Robin.) B. 2, pl. 5 ; M., wdcut., p. 21.

Miro bulleri, Sharpe.

(Alpine Robin.)

Miro traversi, Buller.

(Chatham Island Robin.)

Miro dannefaerdi, Rothschild.

(Snares Robin.)

Rhipidura flabellifera, Gmelin.

(Pied Fantail.) B. 2, pl. 8.

Rhipidura fuliginosa, Sparrm.

(Black Fantail.) B. 2, pl. 8.

Family CAMPOPHAGIDÆ.

Graucalus melanops, Latham.

(Australian Shrike.)

Family TIMELIIDÆ.

Clitonyx albicapilla, Lesson.

(Whitehead.) B. 1 ; B. 2, pl. 6 ; M. 9, p. 16, wdcut., p. 16.

Clitonyx ochrocephala, Gmelin.

(Yellowhead.) B. 1 ; B. 2, pl. 6 ; M. 9, p. 17.

Bowdleria punctata, Quoy et Gaim.

(Fern-bird.) B. 1 ; B. 2, pl. 7 ; M. 10, p. 18.

Bowdleria fulva, Gray.

(Fulvous Fern-bird.)

Bowdleria caudata, Buller.

(Snares Fern-bird.)

Bowdleria rufescens, Buller.

(Chatham Island Fern-bird.) B. 1 ; M. 10, p. 18.

Family TURDIDÆ.

Turnagra tanagra, Buller.

(North Island Thrush.) B. 1 ; B. 2, pl. 4 ; M. 11, p. 25.

Turnagra crassirostris, Gmelin.

(South Island Thrush.) B. 1 ; B. 2, pl. 4 ; M. 11, p. 25, wdcut., p. 25.

Family PARIDÆ.

Certhiparus novæ-zealandiæ, Lafresnaye.

(New Zealand Creeper.) B. 2, pl. 6.

Family MELIPHAGIDÆ.

Pogonornis cineta, Dubus.

(Stitch-bird.) B. 1 ; B. 2, pl. 11 ; M. 5, p. 9, wdcut., p. 9.

Anthornis melanura, Sparrm.

(Korimako.) B. 2, pl. 9 ; M., wdcut., p. 11.

Anthornis melanocephala, Gray.

(Chatham Island Bell-bird.) M. 7, p. 12.

Prosthemadera novæ-zealandiæ, Gmelin.

(Tui or Parson-bird.) B. 1 ; B. 2, pl. 10 ; M. 6, p. 10, wdcut., p. 10.

Acanthochæra carunculata, Latham.

(Australian Honey-eater.)

Family ZOSTEROPIDÆ.

Zosterops cærulescens, Latham.

(Silver-eye.) B. 2, pl. 9.

Family MOTACILLIDÆ.

Anthus novæ-zealandiæ, Gmelin.

(New Zealand Pipit.) B. 2, pl. 7.

Anthus aucklandicus, Gray.

(Auckland Island Pipit.)

Anthus steindachneri, Reiser.

(Steindachner's Pipit.)

Family STURNIDÆ.

Heteralocha acutirostris, Gould.

(Huia.) B. 1 ; B. 2, pl. 2 ; M. 14, p. 31, wdcut., p. 31, wdcut. ; B.S., p. 21 ; B.S., p. 160.

Creadion carunculatus, Gmelin.

(Saddle-back.) B. 1 ; B. 2, pl. 3 ; M. 13, p. 29, wdcut., p. 29.

Creadion cinereus, Buller.

(Jack-bird.) B. 2, pl. 3 ; M. 12, p. 28.

Family GLAUCOPIDÆ.

Glaucopis cinerea, Gmelin.

(Orange-wattled Crow.) B. 1 ; B. 2, pl. 1 ; M. 12, p. 27.

Glaucopis wilsoni, Bonap.

(Blue-wattled Crow.) B. 1 ; B. 2, pl. 1 ; M. 12, p. 28, wdcut., p. 28.

The following is a list of the species of birds procured by Lord Ranfurly from the Cook Islands and from Niue, and identified at the British Museum.*

The native names were supplied by Lieut.-Colonel Gudgeon, C.M.G.

RAROTONGA.

- Ptilopus rarotongensis*, Hartl. & Finsch.
(Rarotonga Fruit Pigeon), Kukupa.
Globicella pacifica, Gmel.
(Pacific Fruit Pigeon), Rupe.
Anous stolidus, Linn.
(Noddy), Ngoio.
Gygis candida, Gmel.
(White Tern), Kakaia.
Heteractitis incanus, Gmel.
(American Tattler), Patangaroa.
Demigretta sacra, Gmel.
(Reef-heron), Kotu-ku.
Urodynamis taitensis, Sparrm.
(Long-tailed Cuckoo), Karavea.
Chasiempis dimidiata, Hartl. & Finsch.
(Fly-catcher), Kakerori.
Aplonis cinerascens, Hartl. & Finsch.
(Starling), Toikaranga.

NIUE OR SAVAGE ISLAND.

- Ptilopus porphyraceus*, Forst.
(Niue Fruit Pigeon), Kulu-kulu.
Porzana tabuensis, Gmel.
(Small Rail), Moho.
Heteractitis incanus, Gmel.
(American Tattler), Kui.
Vini australis, Gmel.
(Native Lory), Henga.
Urodynamis taitensis, Sparrm.
(Long-tailed Cuckoo), Kalue.
Collocala francica, Gmel.
(Edible Swiftlet), Peka Peka.
Lalage whitmeei, Sharpe.
(Cuckoo-shrike), Hea-Hea.
Aplonis brunnescens, Sharpe.
(Starling), Misi.

* *Ibis*, October, 1905.

A list of the birds intentionally introduced into New Zealand by acclimatisation societies and settlers, the most of which have more or less established themselves in different parts of the country.

IMPORTED BIRDS.

Turdus musicus, L. (Song Thrush.)
Merula merula, L. (Blackbird.)
Saxicola picata, Blyth. (Magpie Lark.)
Erithacus rubecula, L. (Robin.)
Ædon luscinia, L. (Nightingale.)
Accentor modularis, L. (Hedge-sparrow.)
Ligurinus chloris, L. (Green Linnet.)
Fringilla caelebs, L. (Chaffinch.)
Carduelis elegans, Steph. (Goldfinch.)
Chrysomitris spinus, L. (Siskin.)
Linota cannabina, L. (Green Linnet.)
Passer domesticus, L. (House-sparrow.)
Emberiza citrinella, L. (Yellow-hammer, Cirl Bunting.)
Sturnus vulgaris, L. (Starling.)
Corvus frugilegus, L. (Rook.)
Athene noctua, Retz. (Little Owl.)
Columba livia, Briss. (Rock Pigeon.)
Columba palumbus, L. (Ringdove.)
Caccabis rufa, L. (Red-legged Partridge.)
Perdix cinerea, Lath. (Partridge.)
Phasianus colchicus, L. (Pheasant.)
Phasianus torquatus, Gmel. (Ring-necked Pheasant.)
Vanellus aristatus, L. (Lapwing.)
Cygnus olor, Gmel. (Swan.)
Cygnus atratus, Latham. (Black Swan.)
Mareca penelope, L. (Widgeon.)
Daifa acuta, L. (Pin-tailed Duck.)
Munia orizyvara, L. (Java Sparrow.)
Acridotheres tristis, L. (House Myna or Grackle.)
Gymnorhina leuconota, Gray. (Australian Magpie.)
Synaecus australis, Temn. (Swamp Quail.)
Callipepla californica, Shaw. (Californian Quail.)
Pavo cristatus, L. (Peacock.)
Meleagris gallopavo, L. (Turkey.)
Numida meleagris, L. (Pintado or Guinea-fowl.)
Thaumalea picta, L. (Golden Pheasant.)
Gallus Bankiva, var. (Fowl.)
Anas moschata, L. (Musk Duck.)
Anser ferus, L. (Goose.)
Myzantha garrula,? Vig. & H. (Australian Mynah.)

A large number of species have been imported for acclimatisation purposes, but have, for one reason or another, failed to establish themselves. Amongst them are the following species :—

Java Dove.

Leucosarcia picata. (Wonga Pigeon.)

Phaps chalcoptera, Gould. (Bronze-wing Pigeon.)

Ocyphaps lophotes, Temm. (Crested Bronze-wing Pigeon.)

Tasmanian Bronze-wing Pigeon.

Oreoica gutturalis, Gould. (Australian Bell Bird.)

Squatarola helvetica. (Plovers.)

Jager Birds.

Fringilla montifringilla. (Bramble Finches.)

Zebra Finches.

Zonœginthus bellus. (Fire-tailed Finches.)

Pardalotus affinis. (Diamond Finches.)

Emberiza hortulana, L. (Ortolans.)

Dicrurus bracteatus, Gould. (Australian Shrike.)

Dacelo gigas. (Laughing Jackass.)

Caccabis rufa? (Hungarian Partridge.)

Pterocles arenarius? (Teneriffe Sand Grouse.)

Anas boschas, L. (English Mallard.)

Anas ferina, L. (English Pochard.)

Anas crecca, L. (English Teal.)

Chaulelasma strepera. (Gadwall.)

Carolina Teal.

Silver Pheasant.

Elliott Pheasant.

Phasianus reevesi. (Reeves Pheasant.)

Ortyx virginianus. (Virginia Quail.)

Anser canadensis. (Canadian Geese.)

Aex sponsa. (Wood Duck.)

Maine Geese.

Cygnopsis cygnoides. (Swan Goose.)

The first part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics, and that the laws of quantum mechanics are based on the principle of the conservation of energy. The second part of the paper is devoted to a discussion of the structure of the atom, and the third part to a discussion of the structure of the atom.

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